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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/648,774	08/25/2003	Paul A. Knight	ISOT-019	4036
7590	03/07/2006		EXAMINER	
Michael S. Neustel Suite No. 4 2534 South University Drive Fargo, ND 58103				LU, JIPING
		ART UNIT		PAPER NUMBER
		3749		

DATE MAILED: 03/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/648,774	KNIGHT ET AL.	
	Examiner	Art Unit	
	Jiping Lu	3749	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 17 October 2005.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-16 and 18-35 is/are pending in the application.
 4a) Of the above claim(s) 18 and 19 is/are withdrawn from consideration.
 5) Claim(s) 20-35 is/are allowed.
 6) Claim(s) 1,2 and 9 is/are rejected.
 7) Claim(s) 3-8, 10-16 is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date 10/17/05.

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____.

DETAILED ACTION

Election/Restrictions

1. This application contains claims 18-19 drawn to an invention nonelected without traverse in Paper No. 7/9/2004. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

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Claim Rejections - 35 USC § 102

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

3. Claims 1-2, 9 are rejected under 35 U.S.C. 102(b) as anticipated by Leicht (U. S. Pat. 5,181,648).

Leicht shows a dry-wet thermal management system comprising a chassis 101 having a dry chamber 107 and a spray chamber 103, a fan 108 and a spray unit 104 same as claimed. The dry chamber 107 with a fan 108 contains at least one dry electronic circuit board held by conveyor 3. The spray chamber 103 with a fluid sprayer 104 (used for cooling, col. 4, lines 25-28) contains at least one wet electronic circuit board held by the conveyor 3. For claim 9, the tempering means 103 is also deemed to be cooling management unit fluidly connected to the spray unit 104 and the spray chamber 104.

Allowable Subject Matter

3. Claims 20-35 are allowed.
4. Claims 3-8, 10-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

5. The applicant's arguments failed on Oct. 17, 2005 have been carefully considered. However, the arguments are not persuasive to overcome the rejection. First, the broadened claim 1 fail to structurally define over the prior art references. Subsequent the rejection under 35 USC 102b was reinstated. Please point out from the broad claim any structural limitations, if any, that the prior art references fail to show or teach. Second, the applicant argued that Leicht USP 5181648 does not show the usage of a dry chamber and a spray chamber for receiving corresponding electronic cards that are active-much less thermally manages active heat producing electronic cards. This line of arguments is totally irrelevant because no such limitations are found in the broadened claim 1. Third, the applicant also argued that the Leicht patent is merely cleaning inactive cards. Again, this line of arguments is irrelevant because the broadened claim 1 does not distinguish what is active and inactive electronic card. Regarding arguments relating to cleaning, again the broadened claim 1 could be also used in cleaning inactive electronic card. The broadened claim 1 simply failed to structurally define over the prior art references.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jiping Lu whose telephone number is 571 272 4878. The examiner can normally be reached on Monday-Friday, 9:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EHUD GARTENBERG can be reached on 571 272-4828. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jiping Lu
Primary Examiner
Art Unit 3749

J. L.